



State of New Hampshire
DEPARTMENT OF ENVIRONMENTAL SERVICES

6 Hazen Drive, P.O. Box 95, Concord, NH 03302-0095
(603) 271-1370 FAX (603) 271-1381



April 8, 2002

Peter Valade
Director
Maintenance, Engineering & Grounds
New Hampshire Hospital
36 Clinton Street
Concord, New Hampshire 03301

**CERTIFIED MAIL (7099 3400 0003 0687 3063)
RETURN RECEIPT REQUESTED**

**LETTER OF DEFICIENCY
ARD No. 2002-004**

Dear Mr. Valade

On January 8, 2001, the New Hampshire Department of Environmental Services, Air Resources Division ("DES") performed a compliance inspection of the New Hampshire Hospital facility located at 36 Clinton Street, Concord ("NH Hospital"). The inspection of NH Hospital included the Main Hospital Building, the Philbrook Building and the Tobey Building. In addition to the on-site inspection, DES conducted a subsequent file review. The purpose of the inspection and file review was to evaluate compliance with State Permit to Operate FP-S-0058 ("the Permit") issued on July 2, 1998, and the NH Admin. Rules Env-A 100-3600, NH Rules Governing The Control of Air Pollution.

As a result of the inspection and file review, this Letter of Deficiency ("LOD") is being sent to identify the following deficiencies:

1. In June of 2000, NH Hospital installed an Onan DGDB diesel emergency generator, rated at 1,000,000 BTUs per hour, at the Philbrook Building. In July of 2000, NH Hospital installed a Caterpillar 3306 diesel emergency generator, rated at 2,590,000 BTUs per hour, at the Tobey Building. Env-A 607.01(d) requires the owner of one or more internal combustion engines which combust liquid fuel oil, for which the combined total design gross heat input for all such engines is greater than or equal to 1,500,000 BTUs per hour, to obtain a permit prior to construction or installation of the device. In December of 1998, NH Hospital installed a Caterpillar 3508 emergency generator/engine rated at 7,670,000 BTUs per hour. This engine is currently included in the Permit. Since this permitted engine by itself exceeds the 1,500,000 BTUs per hour threshold specified in Env-607.01(d), NH Hospital was required to apply for permits for the additional engines prior to their installation. DES has not received applications for permits for these devices
2. Table 1: Device Identification and Operating Limitations of the Permit specifies that the maximum sulfur content of the #6 fuel oil combusted in Cleaver Books boilers #1 through #5 shall not exceed 0.5 percent sulfur by weight. During the inspection, DES identified that NH Hospital received a delivery of 7,811 gallons of #6 fuel oil with a sulfur content of 1 percent by weight on February 3, 2000. This exceeds the maximum sulfur content allowed by the Permit;
3. Env-A 911.03(b) Reporting Requirements requires NH Hospital to notify DES by telephone or fax within twenty-four (24) hours of discovery of a permit deviation that results in excess emissions, and to submit a written report to the division within ten (10) days of discovery of the permit deviation. The delivery to NH Hospital on February 3, 2000 of #6 fuel oil with a sulfur content of 1 percent by weight, and its subsequent combustion, is a permit deviation that resulted in excess emissions of sulfur dioxide. DES did not receive notification of the permit deviation until February 6, 2001;

4. Condition VIII.A Recordkeeping and Reporting Requirements of the Permit requires NH Hospital to maintain records and report to DES by April 15 of the following calendar year the annual fuel consumption for all devices listed in the Permit, including the annual hours of operation and fuel usage for the diesel emergency generator listed in the Permit. At the time of the inspection, NH Hospital had not reported the information required by the Permit for calendar years 1997, 1998 and 1999. DES received this information from NH Hospital on February 6, 2001;
5. Condition VIII.B Recordkeeping and Reporting Requirements of the Permit requires NH Hospital to maintain fuel records, including the quantity of fuel combusted, fuel type, and percent sulfur content by weight of fuel. DES identified during the inspection that NH Hospital did not have documentation of the sulfur content of the fuel used in the diesel emergency generator listed in the Permit;
6. Env-A 903.03 General Recordkeeping Requirements for Combustion Devices requires NH Hospital to maintain monthly records of fuel characteristics and utilization for its combustion devices, including consumption, fuel type, and sulfur content as percent sulfur by weight of fuel. NH Hospital did not have any records of fuel usage or fuel characterization for the unpermitted diesel emergency generators at the Tobey and Philbrook buildings;
7. Env-A 907.01 General Reporting Requirements requires NH Hospital to submit an annual emission report to DES. The report must include the actual emissions of each device and the methods used in calculating such emissions, the fuel consumption, fuel type, and sulfur content. Env-A 907.01(c) requires that, beginning with calendar year 1999, the annual emissions report shall be submitted to DES by April 15 of the following year. At the time of the inspection, NH Hospital had not submitted any emissions report for calendar years 1999 or 2000 for the devices listed in the Permit or for the unpermitted diesel emergency generators. DES received fuel usage information from NH Hospital for the devices listed in the Permit on February 6, 2001; and
8. Condition IX Emission-Based Fee Requirements of the Permit requires NH Hospital to calculate the annual emission-based fee for each calendar year in accordance with the procedures specified in the Permit. NH Hospital is required to submit payment of the emission-based fee for each calendar year by October 15 of the following calendar year. At the time of the inspection, NH Hospital had not submitted the emissions-based fee for calendar years 1997, 1998 or 1999. DES received an emissions-based fee payment for calendar years 1997, 1998 and 1999 on March 1, 2001.

DES believes that the above-noted deficiencies can be resolved by NH Hospital taking the following actions:

9. Within 15 days of receipt of this LOD, contact Todd Moore of the Air Resources Division's Stationary Source Management Bureau at 603-271-6798 to determine what is required to apply for a modification of the Permit or to obtain General State Permits for the Onan DGDB diesel emergency generator at the Philbrook Building and the Caterpillar 3306 diesel emergency generator at the Tobey Building;
10. Within 30 days of receipt of this LOD, submit to DES either an application for a modification of the Permit pursuant to Env-A 612 or applications for General State Permits for the devices pursuant to Env-A 610;

11. Within 30 days of receipt of this LOD, submit the annual emission reports required by Env-A 907.01 General Reporting Requirements for the diesel emergency generators at the Tobey and Philbrook buildings for calendar years 1999 and 2000. The reports shall include the actual emissions of each device and the methods used in calculating such emissions, the fuel consumption, fuel type, and sulfur content;
12. Prior to installing any additional device(s) requiring a permit pursuant to Env-A 607.01, or implementing any change to the physical structure or operation of a device covered by the Permit which increases the amount of a specific air pollutant currently emitted, or which results in the emission of any regulated air pollutant not currently emitted, NH Hospital shall submit an application for a permit amendment to DES at least 90 days prior to the implementation of the change prompting the request, in accordance with Env-A 612;
13. Comply at all times with the maximum sulfur content limit of 0.5 percent by weight for #6 fuel oil combusted in Cleaver Books boilers #1 through #5 as specified in Table 1: Device Identification and Operating Limitations of the Permit;
14. Maintain fuel records as required by Condition VIII.B Recordkeeping and Reporting Requirements of the Permit and Env-A 903.03, including the quantity of fuel combusted, fuel type, and percent sulfur content;
15. Submit all future annual reports of fuel usage and emissions required by the Permit and by Env-A 900 to DES by April 15 of the following calendar year. Reports of fuel usage and annual emissions for calendar year 2001 shall be submitted to DES prior to April 15, 2002. Calculate and submit the emissions-based fee to DES by October 15 of the following calendar year. Emission-based fees for calendar year 2001 shall be submitted to DES prior to October 15, 2002; and
15. Comply with Env-A 911.03 Reporting Requirements by submitting reports of permit deviations to DES. NH Hospital can notify DES of permit deviations by telephone, email or fax.

In the event compliance is not achieved within the time periods indicated, DES may initiate formal action against NH Hospital including issuing an order requiring the deficiencies to be corrected, and/or referring this matter to the NH Department of Justice for imposition of civil and/or criminal penalties. DES reserves the right to pursue administrative fines for the violations noted above.

Please address all information to Raymond Walters, at the following address

NHDES Air Resources Division
Compliance Bureau
6 Hazen Drive
P.O. Box 95
Concord, NH 03302-0095

Please be advised that DES will continue to monitor NH Hospital's compliance status. This LOD does not provide relief against any other existing or future violations. It is important that NH Hospital be aware of all the requirements stipulated in its Permit. Please feel free to contact DES should you have any questions regarding compliance with the NH Code of Administrative Rules Env-A 100-3600 and the requirements of the Permit. A current copy of the Air Resources Division rules can be obtained from the DES website at www.des.state.nh.us/ard/ardrules.htm, or by contacting the Public Information Center at (603) 271-2975. If you have any questions regarding this matter, or require further information please contact Raymond Walters at (603) 271-6288 or Mary Ruel at (603) 271-6795.

Sincerely,

COPY

Pamela G. Monroe
Administrator, Compliance Bureau
Air Resources Division

PGM/raw

cc: K. A. Colburn, Director, NHDES-ARD
G. Rule, NHDES-O/C
T. McCusker, EPA Region I
D. Ballantyne, City Manager, City of Concord
Enforcement File

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